## WETLAND DETERMINATION DATA FORM – Great Plains Region

roject/oile.	5 Plate Site		City/County	y:	Jetters-	Sampling D	ate: 8	1211
roject/Site:Roc	DOE		- 5 YELTO	44.0	State:	Sampling P	oint: FC	1-5
nvestigator(s):	Jody Nelson	-	Section, To	ownship, Ra	ange: 125 R7	10W. 5	01,30	
andform (hillslope, terrace, etc.):	porrow pit bo	tto	Local relie	f (concave,	convex, none):	care	Slope (%	9).
ubregion (LRR):		Lat:7	50290	19600	7 Long: 2081669.7	49 337	Datum: #	1141
oil Map Unit Name:	tigate area				NWI classific	ration:	n 14	07.6
re climatic / hydrologic conditions on							-74	
re Vegetation, SoilX_, c					"Normal Circumstances" p			No
re Vegetation, Soil, c					eeded, explain any answe			NO
UMMARY OF FINDINGS -	Attach Site map	snowing	sampiin	ig point i	ocations, transects	, importai	nt featur	es, e
Hydrophytic Vegetation Present?			ls th	ne Sampleo	l Aroa			
Hydric Soil Present?	Yes X	10			nd? Yes>	/ No		
Wetland Hydrology Present? Remarks:								
EGETATION – Use scientifi					· former borr	ow pit	Doll on	
(23%/MORES) NAIG	37 16/(83 %)	Absolute	Dominant		Dominance Test work	sheet:	ObuM ybri	18
Tree Stratum (Plot size:			Species?		Number of Dominant Sp			
1. <u>code o ad reum grantino</u>					That Are OBL, FACW, (excluding FAC-):	or FAC	2	_ (A
Like Maine is capture						Indonesia (1)	ava I Iviii	_ (^
3 4		-		· K	Total Number of Domini Species Across All Stra		2	(B)
	ye hed altagra		= Total Cov				restrict rate	_ (D)
Sapling/Shrub Stratum (Plot size: _i				VCI ·	Percent of Dominant Sp That Are OBL, FACW, of	ecies or FAC:	100	(A)
l					Lilly have been been a		WY I	- ( -
2.			stellager		Prevalence Index worl  Total % Cover of:		uláimha haa	
3.					OBL species			
l		41		FACW	FACW species			
	To the ready			Julian Inn	FAC species			
Herb Stratum (Plot size: well a	<u> </u>		= Total Cov	/er	FACU species			
(3 <u>8) fortas, ilmensi, astronov</u> ya	AGSTI	_5_	a) respects:	FACW		x 5 =		
in Brangis, Silvingis,	JUTOI	26	Y	FACW	Column Totals:	(A)	d roteurs	(E
of idea? In will be no against be	Pomol	150	elos Treogle	FACW	Dravalance Index	- D/A -		
(Sout 9)	PAVI	1	z sejariga z	FAL	Prevalence Index  Hydrophytic Vegetatio			_
STOWNS AND AND TOWNS OF WARRING WAR	SCACI		CODING	OBL	1 - Rapid Test for H			
1901 (89686) 1 3/1015	SCMAI	4)	(1 L) N 10M	OBL	2 - Dominance Test		ogeration	
10-31 391 19505	ELMA!	25	Y	FACW	3 - Prevalence Inde			
	PARTIES IN THE PARTIE	21		- OBL FACU	4 - Morphological A	daptations <sup>1</sup> (	Provide sur	pporti
0.	HOJUL	7		FACW	data in Remarks	or on a sepa	arate sheet)	)
	¥ 7.75	68.5	= Total Cov		Problematic Hydrop	hytic Vegeta	tion' (Expla	ain)
Voody Vine Stratum (Plot size:		from page	_ 10tal 00v		<sup>1</sup> Indicators of hydric soil be present, unless distu			must
	mid Smap 1, 70m	nto dan on	clower bal	we draw	Hydrophytic			
	42		= Total Cov	er er	Vegetation	_X_ N	0	
6 Bare Ground in Herb Stratum	70							
6 Bare Ground in Herb Stratum Remarks: < (=0.25%)	70			5 39				

Profile Description: (Describe to the depth needed to document the in	Sampling Point: FC/-
Depth Matrix Redox Features	
(inches) Color (moist) % Color (moist) %	Type <sup>1</sup> Loc <sup>2</sup> Texture Remarks
· files	Alexander of the second of the
	<u> </u>
<u> </u>	
	<u> ikanasa wasa kata kata kata kata kata kata kata k</u>
The section of the se	no cartari es l'appretty o o o o o o
Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered	d or Coated Sand Grains. <sup>2</sup> Location: PL=Pore Lining, M=Matrix.
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise note	
Histosol (A1) Sandy Gleyed Ma	
Histic Epipedon (A2)  Sandy Redox (S5)	
Black Histic (A3) Stripped Matrix (S	
Hydrogen Sulfide (A4) Loamy Mucky Min	neral (F1) High Plains Depressions (F16)
Stratified Layers (A5) (LRR F) Loamy Gleyed Ma	
1 cm Muck (A9) (LRR F, G, H) Depleted Matrix (F	
Depleted Below Dark Surface (A11) Redox Dark Surfa Thick Dark Surface (A12) Depleted Dark Sur	
Sandy Mucky Mineral (S1) Redox Depression	
2.5 cm Mucky Peat or Peat (S2) (LRR G, H) High Plains Depre	
5 cm Mucky Peat or Peat (S3) (LRR F) (MLRA 72 & 7	
7/4mgr 2- \$q.sch	unless disturbed or problematic.
Restrictive Layer (if present):	*
Туре:	
Type: Depth (inches):	Hydric Soil Present? Yes No
Depth (inches):	·
Depth (inches):	
Depth (inches):	o. Aren west 214 continuous days during ology present. They hydric soils presumed to
Depth (inches):  Remarks:  Mitigation area w/disturbed Sorbo  growing season. Hydrophytic veg twetted hydro  be developing.  YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)	Secondary Indicators (minimum of two required)
Depth (inches):  Remarks:  Mitigation area w/disturbed Sorbo  growing season. Hydrophytic veg twetted hydro  be developing.  YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  _ Surface Water (A1)  _ Salt Crust (B11)	Secondary Indicators (minimum of two required)  X Surface Soil Cracks (B6)
Depth (inches):	Secondary Indicators (minimum of two required)  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B8)
Depth (inches):  Remarks:  Mitigation area w/ disturbed Sorbs  growing second. Hydrophytic way twettood hydro be developing.  YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Hydrogen Sulfide Od	Secondary Indicators (minimum of two required)  X Surface Soil Cracks (B6)  Ses (B13)  Sparsely Vegetated Concave Surface (B8)  Ann west > 14 continuous days during  Secondary Indicators (minimum of two required)  X Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B8)  Ann west > 14 continuous days during  Secondary Indicators (minimum of two required)  X Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B8)  Ann west > 14 continuous days during  Secondary Indicators (minimum of two required)  X Surface Soil Cracks (B6)
Depth (inches):  Remarks:  Mitigation area w/ disturbed Scale  growing season, Hydrophytic veg twetted hydro  be developing.  YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Dry-Season Water T	Secondary Indicators (minimum of two required)  Set (B13)  Set (B1
Depth (inches):  Remarks:  Mitigation area w/ disturbed Scale  growing season. Hydrophytic veg twetted hydro  be developing.  YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Dry-Season Water T	Secondary Indicators (minimum of two required)  Surface Soil Cracks (B6)  Surface Soil Cracks (B10)  Sparsely Vegetated Concave Surface (B8)  Drainage Patterns (B10)  Surface Soil Cracks (B10)  Sparsely Vegetated Concave Surface (C3)  Capter Son Living Roots (C3)  Surface Soil Cracks (B10)
Depth (inches):  Remarks:  Moting attan area w/ disturbed Sorbo growing Season, Hydrophytic veg twetted hydro be developing.  YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Oxidized Rhizospher	Secondary Indicators (minimum of two required)  X Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B8)  dor (C1)  Table (C2)  Tres on Living Roots (C3)  Crayfish Burrows (C8)
Depth (inches):  Remarks:  Growing Second. Hydrophytic veg twetted hydrobed developing.  YDROLOGY  Vetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  (where not tilled)	Secondary Indicators (minimum of two required)  X Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B8)  dor (C1)  Table (C2)  Tresson Living Roots (C3)  Tresson Living Roots (C3)  Tresson C4)  Saturation Visible on Aerial Imagery (C9)
Depth (inches):  Remarks:  Growing Second. Hydrophytic veg twetted hydrophytic	Secondary Indicators (minimum of two required)  X Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B8)  dor (C1)  Table (C2)  Tres on Living Roots (C3)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Geomorphic Position (D2)
Depth (inches):  Remarks:  Mitigation area w/ disturbed Sorlo growing Second, Hydrophytic way twetted hydro be developing.  YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Salt Crust (B11)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Drift Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Witer Marks (B5)  Presence of Reducer  Thin Muck Surface (6)	Secondary Indicators (minimum of two required)  X Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B8)  dor (C1)  Table (C2)  Tres on Living Roots (C3)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Geomorphic Position (D2)
Depth (inches):  Remarks:  Mitigation area in / disturbing scale growing second. Hydrophytic way to attend hydro be developing.  YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Salt Crust (B11)  High Water Table (A2) Aquatic Invertebrates Saturation (A3) Hydrogen Sulfide Od  Water Marks (B1) Dry-Season Water T  Sediment Deposits (B2) Oxidized Rhizospher Drift Deposits (B3) (where not tilled)  Algal Mat or Crust (B4) Presence of Reduced Iron Deposits (B5) Thin Muck Surface (Continued on the property of the property (B7) Other (Explain in Reference of Material Imagery (B7) Other (Exp	Secondary Indicators (minimum of two required)  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B8)  dor (C1)  Table (C2)  Tres on Living Roots (C3)  They hydric Soils presumed to surface (B8)  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B8)  County Indicators (minimum of two required)  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B8)  Condized Rhizospheres on Living Roots (C3)  (where tilled)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Concording Conc
Depth (inches):  Remarks:  Growing Second, Hydrophytic veg Y wetland hydrobe developing.  YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1)  High Water Table (A2)  Saturation (A3)  Water Marks (B1)  Sediment Deposits (B2)  Dry-Season Water T  Sediment Deposits (B3)  Algal Mat or Crust (B4)  Iron Deposits (B5)  Inundation Visible on Aerial Imagery (B7)  Water-Stained Leaves (B9)  Field Observations:	Secondary Indicators (minimum of two required)  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B8)  Mor (C1)  Table (C2)  Tres on Living Roots (C3)  Sed Iron (C4)  C7)  Sed Iron (C4)  C7)  Semarks)  Secondary Indicators (minimum of two required)  Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B8)  More tilled (C2)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Sed Iron (C4)  FAC-Neutral Test (D5)  Frost-Heave Hummocks (D7) (LRR F)
Depth (inches):  Remarks:  Mit gatter area of disturbed Scale  growing Second. Hydrophytic way to attend hydro  be developing.  YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Salt Crust (B11)  High Water Table (A2) Aquatic Invertebrates  Saturation (A3) Hydrogen Sulfide Od  Water Marks (B1) Dry-Season Water T  Sediment Deposits (B2) Oxidized Rhizospher  Drift Deposits (B3) (where not tilled)  Algal Mat or Crust (B4) Presence of Reduce  Iron Deposits (B5) Thin Muck Surface (Carlot of Carlot	Secondary Indicators (minimum of two required)  X Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B8)  Drainage Patterns (B10)  Table (C2)  Table (C2)  Toxidized Rhizospheres on Living Roots (C3)  (where tilled)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  A Geomorphic Position (D2)  Emarks)  FAC-Neutral Test (D5)  Frost-Heave Hummocks (D7) (LRR F)
Depth (inches):  Remarks:  Mit gation area of disturbed Sorbo growing Secsor. Hydrophytic way to without hydro be developing.  YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Salt Crust (B11)  High Water Table (A2) Aquatic Invertebrates  Saturation (A3) Hydrogen Sulfide Od  Water Marks (B1) Dry-Season Water T  Sediment Deposits (B2) Oxidized Rhizospher  Drift Deposits (B3) (where not tilled)  Yalgal Mat or Crust (B4) Presence of Reduces  Iron Deposits (B5) Thin Muck Surface (Compared to the compared	Secondary Indicators (minimum of two required)  X Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B8)  Drainage Patterns (B10)  Table (C2)  Tres on Living Roots (C3)  Test on C4)  Captish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  Captish C7)  Emarks)  Secondary Indicators (minimum of two required)  X Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B8)  More tilled)  Crayfish Burrows (C8)  Saturation Visible on Aerial Imagery (C9)  A Geomorphic Position (D2)  FAC-Neutral Test (D5)  Frost-Heave Hummocks (D7) (LRR F)
Depth (inches):  Remarks:  Mrt. g attack area w/ disturbed sorted by dressed by developing.  YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Salt Crust (B11)  High Water Table (A2) Aquatic Invertebrates  Saturation (A3) Hydrogen Sulfide Od  Water Marks (B1) Dry-Season Water T  Sediment Deposits (B2) Oxidized Rhizospher  Drift Deposits (B3) (where not tilled)  Algal Mat or Crust (B4) Presence of Reduced Iron Deposits (B5) Thin Muck Surface (Garden Bernald Leaves (B9)  Field Observations:  Surface Water Present? Yes No Depth (inches): Nater Table Present? Yes No Depth (inches): Saturation Present? Yes No	Secondary Indicators (minimum of two required)  X Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B8)  dor (C1)  Table (C2)  Tress on Living Roots (C3)  Tress on Living Roots (C3)  Tress on Living Roots (C3)  Tress on C(4)  Tress on C(4)  Tress on C(5)  Tress on C(6)  Tress on C(7)  Tress on C(8)  Tress on C(8)  Tress on C(9)  Tress on
Depth (inches):  Remarks:  Mit gation area of disturbed Sorbo growing Second. Hydrophytic way to without hydro be developing.  YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Salt Crust (B11)  High Water Table (A2) Aquatic Invertebrates  Saturation (A3) Hydrogen Sulfide Od  Water Marks (B1) Dry-Season Water T  Sediment Deposits (B2) Oxidized Rhizospher  Drift Deposits (B3) (where not tilled)  Algal Mat or Crust (B4) Presence of Reduces  Iron Deposits (B5) Thin Muck Surface (Compared to the compared t	Secondary Indicators (minimum of two required)  X Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B8)  dor (C1)  Table (C2)  Tress on Living Roots (C3)  Tre
Depth (inches):  Remarks:  Mrt. g attack area w/ disturbed sorted by dressed by developing.  YDROLOGY  Wetland Hydrology Indicators:  Primary Indicators (minimum of one required; check all that apply)  Surface Water (A1) Salt Crust (B11)  High Water Table (A2) Aquatic Invertebrates  Saturation (A3) Hydrogen Sulfide Od  Water Marks (B1) Dry-Season Water T  Sediment Deposits (B2) Oxidized Rhizospher  Drift Deposits (B3) (where not tilled)  Algal Mat or Crust (B4) Presence of Reduced Iron Deposits (B5) Thin Muck Surface (Garden Bernald Leaves (B9)  Field Observations:  Surface Water Present? Yes No Depth (inches): Nater Table Present? Yes No Depth (inches): Saturation Present? Yes No	Secondary Indicators (minimum of two required)  X Surface Soil Cracks (B6)  Sparsely Vegetated Concave Surface (B8)  dor (C1)  Table (C2)  Tress on Living Roots (C3)  Tre

## Wetland Determination Data Form - Great Plains Region Extra Page for Vegetation Species

Date	8/21/13				
Sampling Point	FCI-Ia	(42a)			
Tree Stratum					
	Scientific Name	Absolute % Cover	Dominant Species?	Indicator Status	
11			C C C C C C C C C C C C C C C C C C C	Otatao	
12					
13	Management of the American Conference of the				
14					
15					
	16	voo and	= Total Cov	/er	
Sapling/Shrub S	iratum	Absolute	Dominant	Indicator	

	Scientific Name		Dominant Species?		
11	RUSERO	TO DEGO 101	UV 91	94719	
12					
13					
14					
15					
			= Total Cov	/er	

## Herb Stratum

	Scientific Name	Absolute % Cover	Dominant Species?	Indicator Status
36	AGCAI	2	20.00	FACU
37	ELLRI	2		FAC
38	ASLAI	41		FACU
39	JULOI	41		FACW
40	SPMEI	41		FACU
41	ANGEI	4		FACU
42	PAPRI	21		FACU
43	AGSCI	4		FAC
44	ANSCI	21		FACU
45	ELCAI	41		FALU
46	MEOFI	41		FACU
47	6RSQ1	41		FACU
48	LASEI	41		FAC
1 49	mEAL1	41		FACU
50	PLMAI	41		FAC
51	ASPOI	41		FACU
52	BRJAI	41		FACU
53				
54				
55				
56				
57				
58				and and a second open or orion
59	pulsario con contracto de la c			
60				do magazaren errora
61	701			

7,75 = Total Cover

## Wetland Determination Data Form - Great Plains Region

Extra Pa	age for Vegetation Species				
Date					
Samplin	g Point				
Tree Str		Absolute	Dominant	Indicator	
	Scientific Name	% Cover	Species?	Status	
5					
6					
7					
8					
9					
10		SO MATE	Date of the last o		
			= Total Co	ver	
Sapling/	Shrub Stratum	Absolute	Dominant	Indicator	
	Scientific Name	% Cover	Species?	Status	
6					
7	to a succession of the	A District of the Control of the Parket and			
8					
9			aport policy of the same		
10	The same of the sa				
			= Total Cov	ver	
			-		
Herb Str	ratum				
		Absolute	Dominant	Indicator	
	Scientific Name	% Cover	Species?	Status	
11	harman and the				
12			and the second		
13					
14				Comprised the second	
15			S		
16				V	
17					
18					
19	production of the second				
20			1	and the second	
21	and the second s				
22					
23	Access of the Section				
24	2000				
25				managara	
26				Acres (Control of the Control of the	

= Total Cover

Over > ?

Wetland Qualitative Reve	egetation Evaluation	Form			F	Form #_	
Date 8/21/1 Observer(s) 10.5 Location ID FC	13 Ads— - Fa (42a)	- ,	, 14,				at 2
Photographs taken today?	Y	N					
Are desired wetland plant sp	pecies present? (	1 (Y	1				
Are there any issues regardi	ng the establishment	of the de	sired we	tland sp	ecies? E	xplain, i	f so.
						. ,	
Are the hydrologic condition wetland. If not, describe the	ns appropriate for suc problem/issue.	cessful es	stablishn			bility of	the
Woody Plant Counts					>		
C	G. G		Height		,	Width	
Species	Stem Count	1	2	3	1	2	3
SAAMI	6	1.5'	1.51	1,5'	1.51	1.5"	21
SAEXI	TN	3'	_3′	2'	1.5'	1.5'	1'

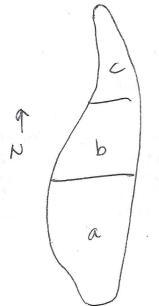
Noxious weed evaluation. See separate noxious weed evaluations conducted throughout the summer months (June – August).

Suggestions for management:

Control weeds as needed.

Other comments:

Area looks very good.



Completed by: \_\_\_\_\_ Knds-

6 KM

Date 8/21/13